

Solutions

Each answer shows the steps, then the **result**.

2.1

- $P(A \mid B) = \frac{P(A \cap B)}{P(B)}$

2.2

- $P(A \mid B) = \frac{0.12}{0.4} = 0.3$

2.3

- $P(A \cap B) = P(A) \cdot P(B \mid A)$

3.1 A

3.2 B

3.3

(a)

- $\frac{0.3}{0.6} = 0.5$

(b)

- $P(A \mid B) = \frac{P(A \cap B)}{P(B)}$